

DRILL HOLES

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ARUNDEL MILLS CIRCLE IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

ARUNDEL MILLS CIRCLE AND WAL MART

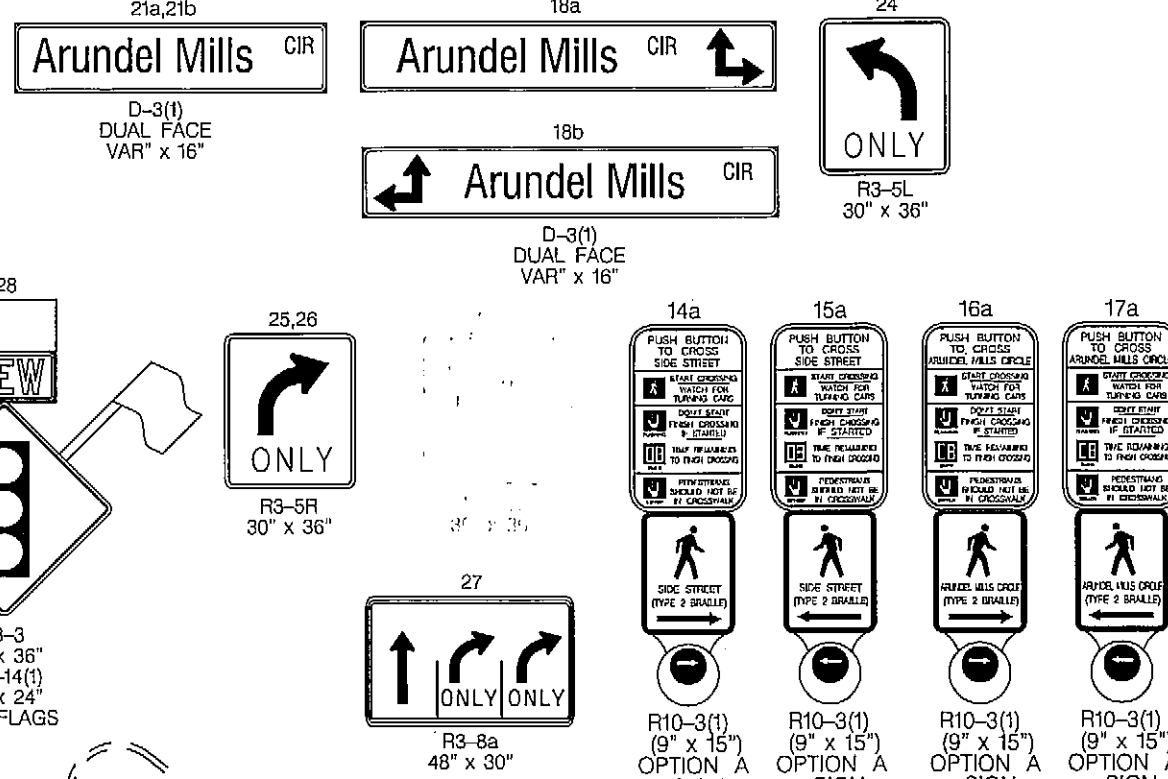
CONSTRUCTION DETAILS

- INSTALL 27 FT. MAST ARM POLE WITH A 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL, PUSHBUTTON, SIGN, VIDEO DETECTION CAMERAS, AND 15 FT. STREET LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- INSTALL 27 FT. MAST ARM POLE WITH A 50 FT. MAST ARM, SIGNAL HEADS, SIGNS, PEDESTRIAN PUSHBUTTON, SIGNAL HEAD AND SIGN (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL TWO VIDEO INTERFACE UNITS
- INSTALL ELECTRICAL HANDHOLE
- INSTALL 1 IN. GALVANIZED STEEL CONDUIT - DETECTOR SLEEVE
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
- INSTALL 5 IN. SKIP WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE - 30 FT. GAP)
- INSTALL MICRO-LOOP PROBE
- INSTALL 5 IN. SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
- INSTALL 5 IN. SKIP WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE (3 FT. LINE - 9 FT. GAP)
- INSTALL 10 IN. SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
- INSTALL 24 IN. SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
- INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW. SEE TABLE FOR LOCATION
- INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING "ONLY". SEE TABLE FOR LOCATION
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
- INSTALL 12 IN. SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
- INSTALL 5 IN. SOLID YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
- USE EXISTING DETECTION
- USE EXISTING HANDHOLE
- USE EXISTING CONDUIT
- REMOVE EXISTING HANDHOLE
- CAP AND ABANDON EXISTING CONDUIT
- INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM
- REMOVE EXISTING SIGN AND INSTALL NEW SIGN AS SHOWN
- INSTALL NEW SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD AND VIDEO DETECTION CAMERA. REMOVE EXISTING SIGNAL HEADS, PEDESTRIAN PUSHBUTTON AND SIGN FROM EXISTING POLE
- INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PUSHBUTTON AND SIGN. CUT TO 5 FT., CLEAN, GALVANIZE AND CAP. (NOTE: INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BEND)
- INSTALL R3-8a SIGN ON TWO 4 IN. X 4 IN. WOOD SUPPORTS
- REMOVE EXISTING POLE, MAST ARM AND ALL ASSOCIATED EQUIPMENT
- USE EXISTING HANDHOLE. ADJUST TO FINAL GRADE
- ABANDON EXISTING HANDHOLE
- REMOVE EXISTING SIGN FROM MAST ARM
- REMOVE EXISTING PEDESTAL POLE AND ALL ASSOCIATED EQUIPMENT
- INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PUSHBUTTON, PEDESTRIAN SIGNAL HEAD AND SIGN. CUT TO 5 FT., CLEAN, GALVANIZE AND CAP. (NOTE: INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BEND)
- INSTALL W3-3 SIGN WITH NEW PANEL APPROXIMATELY 300 FT. IN ADVANCE OF THE INTERSECTION ON ONE 4 IN. X 6 IN. WOOD SUPPORT. THE SIGN IS FOR THE FIRST CASINO GARAGE SIGNAL.

| UTILITY LEGEND | |
|----------------|----|
| AERIAL CABLE | A |
| ELECTRICAL | E |
| TELEPHONE | T |
| GAS | G |
| SEWER | S |
| WATER | W |
| CABLE TV | TV |

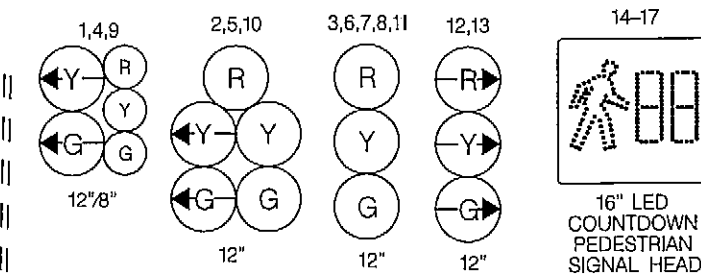
| GEOMETRIC LEGEND | |
|------------------|-----|
| EXISTING | --- |
| PROPOSED | --- |

PROPOSED SIGNS



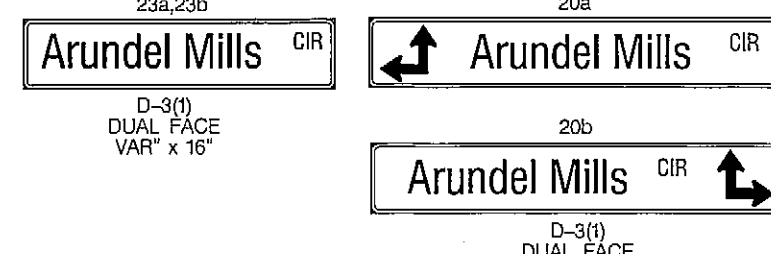
COSTCO ACCESS

PROPOSED L.E.D. SIGNALS



NOTE: SIGNAL INDICATIONS NO. 5, 6 AND 11 SHALL BE INSTALLED IN EXISTING LOCATIONS

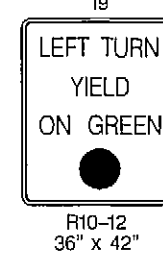
EXISTING SIGNS



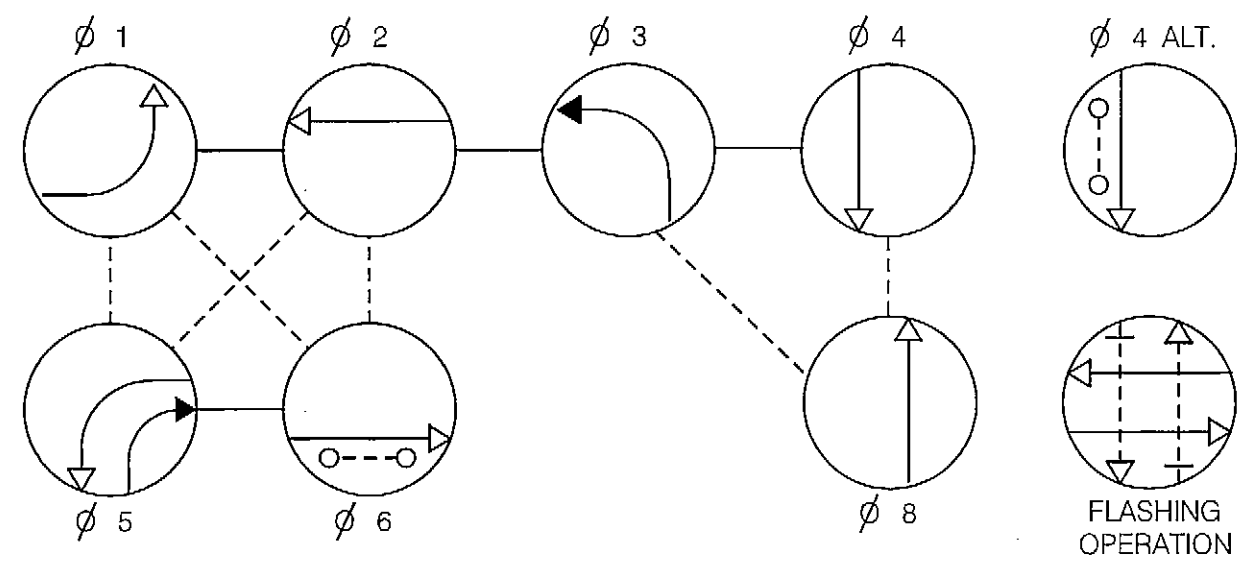
PROPOSED VIDEO DETECTION CAMERA

A-E

EXISTING SIGN (TO BE REMOVED)



NEMA PHASING



- PHASING NOTES:
- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 - PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

ARUNDEL MILLS CIRCLE

ARUNDEL MILLS CIRCLE AND FIRST CASINO GARAGE ACCESS

NORTHBOUND ARUNDEL MILLS CIRCLE LANE DROP SIGNING AND PAVEMENT MARKING LOCATION TABLE

| TRAFFIC CONTROL DEVICE | DISTANCE FROM STOP BAR |
|------------------------|------------------------|
| RIGHT ARROWS | 50' |
| LEFT ARROW | 50' |
| ONLY | 100' |
| RIGHT ARROWS | 150' |
| LEFT ARROW | 150' |
| ONLY | 200' |
| RIGHT ARROW | 250' |
| R3-8(R) SIGN | 250' |

GENERAL NOTES

- THE LOCATION OF PROPOSED GEOMETRICS MUST BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- DISCONNECT AND ABANDON ALL EXISTING DETECTION

EASTBOUND ARUNDEL MILLS CIRCLE LANE DROP SIGNING AND PAVEMENT MARKING LOCATION TABLE

| TRAFFIC CONTROL DEVICE | DISTANCE FROM PAINT GORE |
|------------------------|--------------------------|
| ARROWS | 50' |
| R3-8A SIGN | 50' |
| ONLY | 110' |
| ARROWS | 170' |
| R3-8A SIGN | 170' |
| R3-7(2)(R) CASINO SIGN | 325' |



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

ARUNDEL MILLS CIRCLE AND COSTCO

HANOVER, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE 1"=20' DATE 6-23-11 CONTRACT NO. BW996M82

DESIGNED BY J.K. SCHMID COUNTY ANNE ARUNDEL
DRAWN BY J.K. SCHMID LOGMILE 02550100.00
CHECKED BY T. ZAYDEL T.I.M.S. NO. K-976
F.A.P. NO. N/A TOD NO.

DRAWING NO. TS-3963 A SHEET NO. 1 OF 2

TRAFFIC CONCEPTS, INC.

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EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

| APPROVALS | REVISIONS |
|------------------|-----------|
| TEAM LEADER | |
| ASST. DIR. CHIEF | |
| DIVISION CHIEF | |
| OFFICE DIRECTOR | |

SIGNAL MODIFICATION DUE TO GEOMETRIC IMPROVEMENT (8-3-11)
TIMS#K-976 SHA NO. BW996M82
JKS

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